

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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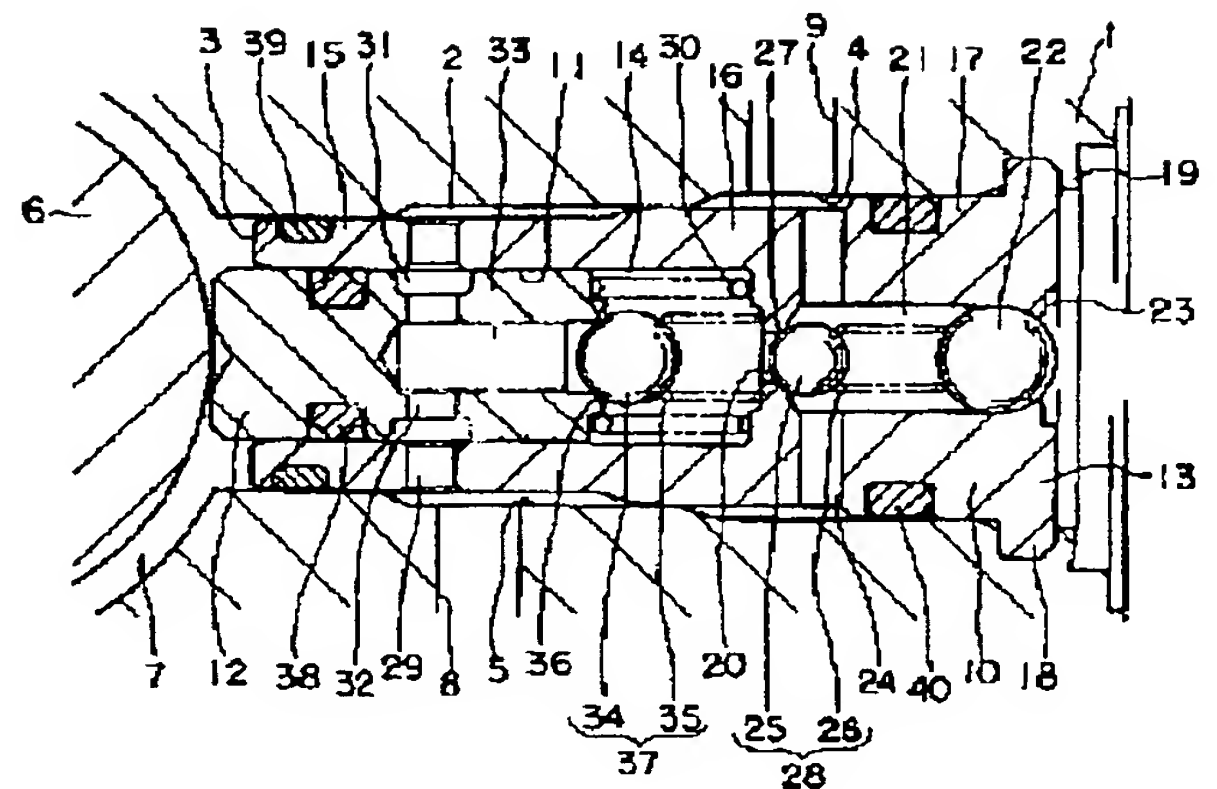
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APPLICANT : UNISIA JECS CORP;

INVENTOR : ICHIKI FUMIMASA;

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TITLE : PUMPING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To prevent metal powder from being generated at the time of assembly, and to prevent failure caused by such foreign matter.

SOLUTION: An accommodation hole 2 is penetrated through a housing 1, and a bottomed tubular cylinder 10 is inserted and fixed inside the accommodating hole 2. A plunger 12 is slidably accommodated in the cylindrical inner part 11 of the cylinder 10, and a pump room 14 is formed on the bottom part 13 side of the cylinder 10. The plunger 12 is driven so as to reciprocate by a driving cam 6 for a pump action. At the bottom part of the cylinder 10, a delivery room 21 is formed, which communicates with the pump room 14 through a delivery hole 20, and a delivery valve 28 for opening and closing the delivery hole 20 is formed in the delivery room 21. The delivery hole 20 is formed directly at the bottom part 13 of the cylinder 10.

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